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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,914	02/07/2006	Jan Kristenson	HW-8023	5898	
63691 7590 66122908 BUDDE, SCHOU & OSTENFELD, A/S VESTER SOEGADE 10, 5TH FLOOR			EXAMINER		
			MILLER, SAMANTHA A		
COPENHAGE DENMARK	EN, DK-1601		ART UNIT	PAPER NUMBER	
			3749		
			MAIL DATE	DELIVERY MODE	
			06/12/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/567,914	KRISTENSON ET AL.		
Examiner	Art Unit		
SAMANTHA A. MILLER	3749		

	SAMANTHA A. MILLER	3749					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MALING D. Edensions of time may be available under the provisions of 37 CPT at 17 after SIX (6) MONTHS from the maining date of the communication. If NO period for ruply is specified above, the reasonine statutory period Any reply received by the Office later than three menths after the making earned gather term adjustment. See 37 CPT at 7000.	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 26 M	arch 2008.						
2a) This action is FINAL. 2b) ☐ This	This action is FINAL. 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-23 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.	claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-23</u> is/are rejected.	☑ Claim(s) <u>1-23</u> is/are rejected.						
Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
	1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	Certified copies of the priority documents have been received in Application No.						
Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	и (РСТ Rule 17.2(a)).		-				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	a □ Interview 2	(DTO 440)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal P	atent Application					
Paper No(s)/Mail Date 3/26/2008.	6) Other:						

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DETAILED ACTION

Response to Amendment

Receipt of applicant's amendment filed on 3/26/2008 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

A. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kristensson (5,167,577) in view of German patent (DE 2608792 A).

Kristensson teaches:

Claim 1: Air supply device (9)for obtaining zones of clean air in premises, said air supply device comprising at least one air permeable body (9) including at least one inner and at least one outer part (13, 16) of which the inner part (13) consists of or includes porous material (col.2 II.50-55), at least one fan device (8a) is provided to bring air (15) (col.2 II.41-49), which is to be supplied to the premises (2), to flow through the air permeable body at low air velocity at least one device (8c) is provided to see to that the air (15) supplied to the premises (2) has a lower temperature than the air in said premises (2) (col.2II.18-19 and col.2 II.38-40), the air permeable body, in cross section, has the shape of parts of a circle or substantially a circle or primarily parts of a circle or substantially a circle (Fig.1), and the combination that the inner part (13) consists of or

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includes porous material and the outer part (16) has passages (pores) and located close to each other (col.3 II.5-25), for making a turbulent zone around the clean-air zone more narrow so that the turbulence around the clean-air zone hereby becomes less (col.3 II.5-11 and col.3 II.26-30) and wherein the air flow .generated through said air permeable body is substantially laminar (being that the air flow is turbulent free this means that it is laminar).

Claim 5: All or almost all passages are of equal length (having the same thickness, Fig.1).

Claim 6: The passages are defined by tubes (cellular pores, col.3 II.5-11) which are located close to each other and connected to each other.

Claim 7: The tubes are made of a plastic material (col.3 II.5-11).

Claim 8: The tubes are made of a metallic material (col.3 II.14-18, wire is a metal).

Claim 9: The tubes are made of a ceramic material (ceramic foam is a tough, plastic-like foam made from ceramics, a plastic-like foam is taught col.3 II.5-11, http://en.wikipedia.org/wiki/Ceramic foam).

Claim 10: The tubes are interconnected by fusing (the process of coating with the PVC material is fusing, col.3 II.5-11).

Claim 11: The porous material of the inner part (13) is designed to permit filtration of air flowing through said porous material in order to obtain a low content of particles in the premises (filter material, col.3 II.5-11).

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Claim 12: The porous material of the inner part consists of foamed plastic with open cells (col.3 II.5-11).

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Claim 14: The outer part (16) consists of a heat resistant material (col.3 II.19-24).

Claim 15: The inner and outer parts (13, 16) are connected to each other (Fig.1).

Claim 16: The body is in cross section shaped as a semicircle or substantially as a semicircle (Fig.1).

Claim 17: The air permeable body is in cross section shaped as a quarter of a circle or substantially as a quarter of a circle (Fig.1).

Claim 18: The air permeable body is shaped as a spherical segment or as a substantially spherical segment (Fig.1).

Claim 19: The device which is provided to see to that the air (15) supplied to the premises (2) has a lower temperature than the air in said premises (2), is provided to supply air at such temperature that said air descends to a low level in the premises (2) (col.2 II.18-19 and col.2 II.38-40).

Claim 20: Impure air is gathered in an upper zone (8) closest to the ceiling of the premises (2) (Fig.7), at least one air outlet (7) for impure air is provided at the ceiling (1) of the premises (2), and characterized in that the air permeable body (9) is located beneath the upper zone (8) such that substantially no impure air is coejected out of the upper zone (8) by the air streams (15) discharged by the air permeable body (9) (Fig.7) (col.2 II.13-40).

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Claim 21: The air permeable body (9) is located above a door (in ceiling) to the premises (2) and it is elongated and extends along at least a part of the width of the door (expanding entire room, Fig.7).

Claim 22: The device (8a) which is provided to see to that the air (15) supplied to the premises (2) has a lower temperature than the air in said premises (2), is a device for taking in cool air and/or includes a cooling device or is a cooling device (8c) for cooling air (col.2 II.14-19).

Claim 23: The porous material retards air flow (as stated col.3 II.14-18 air resistance through the porous material is formed) such that air flow is distributed over an entire inner surface of said inner part and a semi-laminar flow is generated at an inner surface of said outer part.

Claim 24: The outer part generates laminaair streams thereby minimizing a width of turbulent air zones and mixing of surrounding impure air (col.3 ll.14-18).

Kristensson discloses the invention above, however Kristensson does not teach rectilinear uniform in thickness tubes that are at least four times greater in length than width with an outer part thicker than the inner part.

The German Patent teaches (please refer to English translation for correlating lines):

Claim 1. Tubes (3) which are substantially rectilinear, substantially uniform in thickness (Description, II.18-19), said passages (3) further having a length which is at least four times greater than their width in order to generate rectilinear and uniformly distributed partial air streams (Fig.1).

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Claim 2. The length of each passage (3) is 4-10 times greater than their width (Fig.1).

Claim 3. The length of each passage (3) is 4-10 times greater than their width (Fig.1).

Claim 4. The passages (3) have a circular or substantially circular (honeycomb shaped) cross section (Description, II.18-19), and that they have the same or substantially the same diameter along their entire length (Fig.1).

Claim 13: The outer part (3) is thicker than the inner part (2) (Fig.1).

Therefore it would have been obvious to a person having ordinary skills in the art at the time the invention was made to have modified the air system of Kristensson in view of the teaching of the German Patent in order to reduce the exhaust velocity (German patent, II.18-22).

Response to Arguments

Applicant's arguments filed 3/26/2008 have been fully considered but they are not persuasive.

a. Applicant contends that the German Patent does not suggest rectilinear air passages since they are honeycomb. However claims are afford the broadest reasonable interpretation and in this case the definition of rectilinear is a shape that is formed by straight lines, opposed to being formed of curved lines. The honeycomb of the German patent is made up of hexagon air passages which are made up with six straight lines making it rectilinear.

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b. Applicant contends that the German Patent does not teach or suggest air passages having a length at least 4 times greater than their width. However claims are afford the broadest reasonable interpretation and in this case claim 1 merely states having a length which is at least four times greater than their width. The German Patent clearly shows in Figure 1 show the length of the air passages which is greater than 4 times the width same as applicant.

- c. Applicant contends that the German Patent does not suggest laminar flows as a means to avoid co-ejection of impure air with air ejected by the air supply device. However claims are afford the broadest reasonable interpretation and in this case the German Patent clearly states in the translation provided by applicant on pg.2 that says the device or "the clean air intake is placed between the clean-room and the disturbance source and that the clean air is conducted radially against the disturbance sources". The disturbance source would be the impure air and the displacement flow is clearly described as turbulent-free air.
- d. Applicant contends that the German Patent does not teach laminar pure-air. However claims are afford the broadest reasonable interpretation and in this case claim 1 merely states the air is substantially laminar. The German Patent clearly states in the translation provided by applicant on pg.2 that the air is clean air in a clean room and is turbulent-free air. There are two ways to describe air, as turbulent and laminar so being turbulent-free air it is substantially laminar. The German Patent and Kristensson teach pure substantially laminar air flow.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samantha A. Miller whose telephone number is 571-272 9967. The examiner can normally be reached on Monday - Thursday 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve McAllister can be reached on 571-272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Samantha Miller Examiner Art Unit 3749

/Steven B. McAllister/ Supervisory Patent Examiner, Art Unit 3749 6/7/2008